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1923.

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ANNUAL REPORT

OF THE

Medical Officer of Health

FOR THE

BOROUGH OF MAIDSTONE.

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CHARLES PYE OLIVER, M.D., Lond.,

*Doctor in State Medicine, University of London ;*

*Diplomate in Public Health, England ; M.R.C.S., L.R.C.P.*

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*Medical Officer to the Education Authority for the Borough of Maidstone,*

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Maidstone :

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### Notifiable Diseases during the Year.

DISEASE.	Total Cases Notified.	Cases Admitted to Hospital.	Total Deaths.
Diphtheria ... ..	27	27	1
Scarlet Fever ... ..	28	26	—
Enteric Fever ... .. (including Paratyphoid)	5	5	—
Puerperal Fever ... ..	—	—	—
Pneumonia ... ..	24	3	Male 11 Female 4
Malaria ... ..	1	—	—
Dysentery ... ..	—	—	—
Erysipelas ... ..	6	—	—
TUBERCULOSIS :—			
(a) Pulmonary—			
Male ... ..	24	13	Male 14
Female ... ..	32	4	Female 16
Total ... ..	56	17	30
b) Non-Pulmonary—			
Male ... ..	6	—	Male 5
Female ... ..	7	2	Female 4
Total ... ..	13	2	9

CASES.						
	Notified.	Treated.		Vision Unim- paired.	Vision Im- paired.	Total Blind- ness.
		At Home.	In Hospital.			
Ophthalmia Neonatorum	1	—	1	1	—	—

### Analysis of Cases of Notifiable Diseases under Age Groups.

[illegible]

## Analysis of Deaths of Notifiable Diseases under Age Groups.

[illegible]

The number of deaths from all forms of Tuberculosis which had been notified was 20. The number which had not been notified was 19.

The ratio of non-notified Tuberculosis deaths to total number of Tuberculosis deaths was thus as '95 : 1.

### **CAUSES OF SICKNESS.**

There have been no extraordinary causes of sickness and invalidity which have been specially noteworthy during the year.

Arrangements have been made with the Kent County Nursing Association for the home nursing of cases of measles in young children, but it has not been necessary to call upon the Association for this service.

Two beds are retained at the West Kent General Hospital for complicated maternity cases, but were not occupied during the year.

The severer illnesses of children up to five years of age and where the home conditions are not satisfactory, are received at the West Kent General Hospital. This is a voluntary agency. The local authority does not contribute to its funds.

### **MATERNITY AND CHILD WELFARE CENTRES.**

A Centre has been established at the Old Palace, Maidstone, conducted by a band of voluntary workers. Two Health Visitors are engaged in the work, one of whom is provided by the Borough Council, the other by the funds of the Centre.

A lady doctor is in attendance on two afternoons per week for the examination of children under five years of age. The average number of children attending being 42 per session. A Centre was also established at Barming, at which a lady doctor—Dr. Garrett attended. There was an average of 21 children attending.

An ante-natal clinic is also held on Tuesday mornings at the Old Palace, Dr. Garrett, a lady doctor, being in attendance.

A School Clinic is established in connection with the Maidstone Education Authority, the work of which forms the subject of a separate report.

The hospital accommodation available for infectious diseases consists of two separate blocks. Each block has two separate wards. The total accommodation is normally for twenty beds. Only two different kinds of infection can be treated. There is an administrative block in addition and separate buildings for disinfection, laundry, mortuary and garage.

A site has been acquired for the erection of a hospital for cases of small pox on the outskirts of the Borough, and plans have been deposited with the Ministry of Health for the erection of buildings to accommodate six cases. There is sufficient land on the site for further extension if and when necessary.

The West Kent General Hospital, with accommodation for approximately 100 beds, and the Kent County Hospital, for the treatment of eye, nose and throat affections, and having 70 beds, are both situated within the Borough.

St. Faith's Home, 1 Lower Faut Road, Maidstone, is for the reception of unmarried mothers and their infants.

The total number of inmates in residence (exclusive of staff) during the year was 13, and the average duration of stay somewhat over 12 months.

The annual expenditure for year ending March 31st, 1923, was £1,176 9s. 0d., of which the Ministry of Health provided £316 11s. 11d.

### **AMBULANCE FACILITIES.**

Infectious cases are removed in a motor ambulance provided by the Borough.

Non-infections and accident cases are removed by two motor ambulances, in a very efficient manner and on a voluntary basis, by the Maidstone Division of the St. John Ambulance Brigade.

### **LABORATORY WORK.**

Bacterial aids to diagnosis have been utilised to an increasing extent year by year. The County Laboratory is of increasing value to not only the Public Health Department of the Borough, but also to the private medical practitioner as is evidenced by the number of specimens examined as set forth in the subjoined table :—

Disease for which examination was made.	Results.		Total.
	Positive.	Negative.	
Diphtheria .....	31	292	326
Enteric Fever .....	12	42	54
Cerebro-Spinal Meningitis.....	-	--	—
Pulmonary Tuberculosis.....	31	131	162
Ringworm.....	—	—	—
Dysentery .....	—	—	—
Various .....	16	7	23
	93	472	565

A supply of Diphtheria Antitoxin is available for use by medical practitioners, and can be obtained free of charge from the Police Station or from the Sanatorium, Fant Lane, or Health Department, Fairmeadow, either by night or day.

**Premises and Occupations controlled by Bye-laws.**—Bye-laws have been adopted with respect to the following :—

Tents, vans, sheds, &c., for human habitation  
(July, 1903).

Houses let in lodgings (July, 1903).

Accommodation of persons engaged in hop-picking and picking of fruit and vegetables  
(August, 1903).

Bye-laws and regulations with regard to sanitary conveniences :—

Common lodging houses.

OFFENSIVE TRADES.—Blood boiler, blood drier, bone boiler, fellmonger, tanner, leather dresser, soap boiler, tallow melter, fat melter, tripe boiler, glue maker, size maker, gut scraper.

Slaughter houses.

New streets and buildings.

Powers have been taken under the Maidstone Corporation Act, 1923, for the better supervision of markets and slaughter houses for courts to be flagged and drained ; for the prevention of obstructive buildings ; to prevent spread of infectious disease amongst children in secondary schools and in common lodging houses ; for regulating manufacture and sale of ice cream, &c. ; for cleansing of verminous persons and premises, &c.

### Table of Work of Sanitary Inspectors.

Accumulations of manure and other refuse removed .....	15
Ashpits, dilapidated and removed.....	5
Bakehouse inspections.....	101
Chimneys repaired .....	12
Cement sinks removed and glazed sinks provided .....	28
Cesspool built .....	—
Cooking Stoves renewed or repaired .....	28
Cowsheds, Dairies and Milkshops inspections ..	41
Common Lodging Housing inspections...	25
Coppers repaired .....	37
Drains cleansed on complaint or by flushing staff .....	889
„ tested with smoke .....	127
„ „ water.....	34
„ inspection chambers provided .....	108
„ „ „ airtight covers provided .....	115
„ reconstructed.....	143
„ repaired .....	88
„ stoneware gullies provided .....	114
„ stoneware drainage laid .....	4684 ft.
„ iron „ „ .....	431 ft.
„ trapped from sewer and ventilated .....	14
Dustbins provided.....	197
Factory, workshop, workplace and outworkers' premises inspected .....	354
Fresh air inlets provided.....	14
Houses, cement floors provided in cellars.....	6
„ floors to living-rooms provided or repaired .....	75
„ shooting or guttering provided or repaired .....	85
„ roofs repaired .....	140
„ No. of rooms where dirty or loose paper has been removed and walls and ceilings repaired and dis-tempered .....	336
„ walls made dry by insertion of damp course or other method.....	44
Inquiries into cases of infectious disease .....	112
Inspection of houses on complaint or otherwise .....	543
„ „ under H. and T. P. Act, 1909... ..	39
„ of work in progress .....	2097
Miscellaneous defects remedied .....	188
Outbuildings and Washhouses repaired or rebuilt ..	10
Overcrowding abated .....	1
Poultry or animals removed .....	12
Re-inspections of houses .....	1939
Schools inspected .....	15
Sink or other waste pipes removed, disconnected or trapped ..	27
Sinks, new channels provided or repaired .....	56
Slaughterhouse inspections.....	106
Stairs repaired .....	21
Strainers provided to gullies ..	29
Tipplers repaired, renewed or cleansed ..	46
Walls and Ceilings repaired .....	266
W.C.'s, additional, provided .....	3
„ flushing apparatus provided or repaired .....	68
„ new pans and traps provided .....	125
„ structural defects remedied .....	77
Window sashes hung so as to open full size and cords renewed ..	162
„ sills renewed .....	14
Yard pavement provided or repaired in connection with dwellings .....	147

### SLAUGHTERHOUSES.

There are 16 Registered and 2 Licensed in the Borough. They are inspected regularly for cleanliness, &c., and also when slaughtering is in hand for inspection of meat, they are kept in a very good condition. 106 inspections were made in 1923; 1 defect was found and remedied.

### DISINFECTION.

The disinfection of houses where infectious diseases occur is regularly carried out and articles of bedding and clothing are removed to the Sanatorium, where they are put through a steam disinfectant. Rooms are disinfected after the death or removal of a case of Tuberculosis.

During 1923 3,309 articles and 115 rooms were disinfected.

### DAIRIES, COWSHEDS & MILKSHOPS ORDER.

These premises are regularly inspected, and are kept in a very clean condition; 41 inspections were made in 1923.

MILK; and CREAM not sold as PRESERVED CREAM.

	(a) Number of samples examined for the presence of a preservative.	(b) Number in which a preservative was reported to be present.
Milk ... ..	50	—
Cream ... ..	Nil	—

**Sale of Food and Drugs Act.**--During the year 76 samples were taken, comprised as follows:—

Articles.	Number.	Number Genuine.
Milk .....	50	48
„ Skim .....	2	2
Whiskey .....	3	3
Fresh Butter .....	1	1
Camphorated Oil .....	2	2
Liquorice Powder .....	2	2
Baking „ .....	2	2
Pepper .....	3	3
Sponge Cakes .....	5	2
Cooking Flour .....	3	3
	<hr/> 76	<hr/> 71

## PUBLIC HEALTH STAFF.

The Public Health Staff consists of the Medical Officer of Health (part time Officer), who is also the School Medical Officer, and a Chief Inspector, a Consulting Sanitary Inspector, a Clerk and two Health Visitors. The Inspector holds the Royal Sanitary Institute Certificate for meat and other foods.

## HOUSING.

Number of new houses erected during the year :—	
(a) Total ... ..	37
(b) As part of a Municipal Housing Scheme ... ..	—

### UNFIT DWELLING HOUSES.

#### I. Inspection.

1. Total number of dwelling-houses inspected for housing defects (under Public Health or Housing Acts) ...	513
(2) Number of dwelling-houses which were inspected and recorded under the Housing (Inspection of District) Regulations, 1910... ..	39
(3) Number of dwelling-houses found to be in a state so dangerous or injurious to health as to be unfit for human habitation... ..	1
4. Number of dwelling-houses (exclusive of those referred to under the preceding sub-heading) found not to be in all respects reasonably fit for human habitation ...	172

#### II. Remedy of Defects without Service of formal Notices.

Number of defective dwelling-houses rendered fit in consequence of informal action by the Local Authority or their officers ... ..	372
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#### III.—Action under Statutory Powers.

##### A. PROCEEDINGS UNDER SECTION 28 OF THE HOUSING TOWNS PLANNING, &c., ACT, 1919.

(1) Number of dwelling-houses in respect of which notices were served requiring repairs ... ..	Nil
(2) Number of dwelling-houses which were rendered fit—	
(a) by owners ... ..	—
(b) by Local Authority in default of owners ...	—
(3) Number of dwelling-houses in respect of which Closing Orders became operative in pursuance of declarations by owners of intention to close ...	Nil

<b>B.—PROCEEDINGS UNDER PUBLIC HEALTH ACTS</b>	
(1) Number of dwelling-houses in respect of which notices were served requiring defects to be remedied ... ..	129
(2) Number of dwelling-houses in which defects were remedied—	
(a) by owners ... ..	319
(b) by Local Authority in default of owners ...	30
<b>C.—PROCEEDINGS UNDER SECTION 17 AND 18 OF THE HOUSING, TOWN PLANNING, &amp;c. ACT, 1909.</b>	
(1) Number of representations made with a view to the making of Closing Orders ... ..	1
(2) Number of dwelling-houses in respect of which Closing Orders were made ... ..	1
(3) Number of dwelling-houses in respect of which Closing Orders were determined, the dwelling-houses having been rendered fit ... ..	Nil
(4) Number of dwelling-houses in respect of which Demolition Orders were made ... ..	Nil
(5) Number of dwelling-houses demolished in pursuance of Demolition Orders ... ..	Nil

## **FACTORIES, WORKSHOPS, WORKPLACES AND HOMEWORK.**

Three hundred and fifty four inspections have been made and 16 written notices issued.

The number of defects found were 16 and they were all remedied.

There are 249 workshops and 30 bakehouses.

## **METEOROLOGY.**

The detail of meteorological observations is set forth in the Appendix. The mean reading of the barometer for the year is 29.85 inches, the highest monthly mean being for January 31.10, and the lowest for February 29.51. The hottest month was July, giving a mean of the maximum readings of the thermometer in the shade of 78°, and mean of the minimum readings of 57°, while the coldest month

was December, with a mean of maximum readings of  $42^{\circ}$  and a mean of minimum readings of  $33^{\circ}$ . The prevailing winds were S.W., there being 125 days on which the wind was in this quarter. The total rain-fall for the year was 28.21 inches, the heaviest amount falling in October, viz., 6.45 inches, while during June the amount registered was .70 inches, this being the driest month of the year. There were 184 days in the year on which .01 of an inch or more rain fell.

### WATER REPORT.

Samples of each of the water supplies have been analysed chemically week by week and found to be satisfactory. These samples are collected at the source, and as near the point of distribution in the houses as possible on alternate weeks.

The analyses in detail, numbering 158, are set forth in the appendix, while the respective average for the four supplies are shown in the following table:—

Average results during the year 1922.	BOARLEY.	COSINGTON.	FORSTAL.	COSINGTON AND FORSTAL (MIXED).
Total Solids...	37.0	36.0	44.6	43.7
Chlorine .....	2.0	2.0	3.9	3.5
Nitrogen as Nitrates .....	.559	.442	.288	.330
Free Ammonia .....	.00	.00	.00	.00
Albuminoid Ammonia .....	.01	.01	.01	.01
Hardness. Total .....	21.9	21.6	30.7	29.5
.. Perm. ....	6.5	6.3	8.0	7.6
Colour and appearance in a 2-foot tube .....	clear	clear	clear	clear
Smell .....	none	none	none	none
Phosphoric Acid .....	none	none	none	none

158\* All results are given in parts per hundred thousand, except Free and Albuminoid Ammonia, which are in parts per million

The gathering grounds at Boarley and Cossington, together with the reservoirs at Boarley, Dething and Barming, continue to be patrolled daily by an employé of the Waterworks Company, and have been inspected by myself in company with Professor John Eyre, Dr. Greenwood, the County Medical Officer of Health, and Mr. Ware, the Engineer.

The grounds have invariably been found in a satisfactory condition.

Each of the specimens from the various supplies has been bacterially examined under the supervision of Professor John Eyre, whose last report on samples of water collected monthly, dated 19th January, 1924, states that "he has much pleasure in expressing once again his satisfaction at the bacteriological purity exhibited by these waters as shown by my tests."

I have the honour to be,

Mr. Mayor and Gentlemen,

Your obedient servant,

C. PYE OLIVER, M.D.,

*Doctor in State Medicine (Lond.).*

THE GABLES,

MAIDSTONE,

*May, 1924.*

TABLE I.

Causes of Death.							M.	F.
All Causes							205	207
1	Enteric Fever	..	...	...	...	...	...	...
2	Small-pox	..	...	...	...	...	...	...
3	Measles	...	...	...	...	...	1	1
4	Scarlet Fever	...	...	...	...	...	...	...
5	Whooping Cough	...	...	...	...	...	2	...
6	Diphtheria	...	...	...	...	...	1	...
7	Influenza	...	...	...	...	...	1	4
8	Encephalitis Lethargica	..	...	...	...	...	...	...
9	Meningococcal Meningitis	...	...	...	...	...	1	...
10	Tuberculosis of Respiratory System	...	...	...	...	...	14	16
11	Other Tuberculous Diseases	...	...	...	...	...	5	4
12	Cancer, Malignant Disease	...	...	...	...	...	22	40
13	Rheumatic Fever	...	...	...	...	...	...	1
14	Diabetes	...	...	...	...	...	1	...
15	Cerebral Hemorrhage, &c.	...	...	...	...	...	11	17
16	Heart Disease	...	...	...	...	...	23	39
17	Arterio-sclerosis	...	...	...	...	...	11	6
18	Bronchitis	...	...	...	...	...	14	16
19	Pneumonia (all forms)	...	...	...	...	...	11	4
20	Other Respiratory Diseases	...	...	...	...	...	3	3
21	Ulcer of Stomach or Duodenum	...	...	...	...	...	2	...
22	Diarrhea, &c. (under 2 years)	..	...	...	...	...	3	...
23	Appendicitis and Typhlitis	...	...	...	...	...	4	...
24	Cirrhosis of Liver	...	...	...	...	...	5	2
25	Acute and Chronic Nephritis	...	...	...	...	...	5	5
26	Puerperal Sepsis	..	...	...	...	...	...	2
27	Other Accidents and Diseases of Pregnancy and Parturition	..	...	...	...	...	...	3
28	Congenital Debility and Malformation, Premature Birth	...	...	...	...	...	12	6
29	Suicide	...	...	...	...	...	5	1
30	Other Deaths from Violence	..	...	...	...	...	7	7
31	Other defined Diseases	..	...	...	...	...	40	29
32	Causes ill-defined or unknown	...	...	...	...	...	1	1

TABLE II.—Boarley Water Supply.

Source of Sample.	Date of Collections.	Total Solids.	Chlorine.	Nitrogen as Nitrates.	Ammonia.		Hardness.		Colour and appearance in 2-ft. tube.	Smell.	Phosphoric Acid.
					Free.	Albuminoid.	Total.	Perm.			
1923.											
Gathering Ground	Jan. 1	325	22	576	00	01	225	60	clear	none	none
48, Brewer Street ..	" 8	430	34	378	00	01	240	64	"	"	"
Gathering Ground	" 15	350	20	378	00	01	250	65	"	"	"
6, Market Street....	" 22	355	22	376	00	01	260	69	"	"	"
Gathering Ground	" 29	360	19	613	00	01	255	68	"	"	"
77, Perryfield Street	Feb. 5	355	19	701	00	01	250	69	"	"	"
Gathering Ground	" 12	350	12	576	00	01	255	68	"	"	"
34, Perry Street ....	" 19	400	19	711	00	01	245	60	"	"	"
Gathering Ground	" 26	355	20	704	00	01	254	69	"	"	"
Fairmeadow Offices	Mar. 5	356	21	576	00	01	265	70	"	"	"
Gathering Ground	" 12	358	22	576	00	01	258	69	"	"	"
13, Waterside .....	" 19	355	21	576	00	01	256	68	"	"	"
Gathering Ground	" 26	354	21	576	00	01	258	69	"	"	"
76, Sandling Road ..	April 3	355	19	701	00	01	258	76	"	"	"
Gathering Ground	" 8	400	20	711	00	01	250	80	"	"	"
32, Brewer Street ..	" 16	355	23	701	00	01	262	70	"	"	"
Gathering Ground	" 23	355	21	704	00	01	262	70	"	"	"
Fairmeadow Offices	" 30	405	20	711	00	01	256	87	"	"	"
Gathering Ground	May 7	375	21	576	00	01	264	70	"	"	"
13, Fairmeadow ....	" 14	405	22	704	00	01	254	86	"	"	"
Gathering Ground	" 22	410	21	370	00	01	265	76	"	"	"
23, Market Street ..	" 28	400	21	570	00	01	265	72	"	"	"
Gathering Ground	June 4	410	21	617	00	01	265	72	"	"	"
15, Medway Street..	" 11	100	20	345	00	01	260	72	"	"	"
Gathering Ground	" 18	110	22	609	00	01	265	72	"	"	"
3, Woollett Street ..	" 25	410	21	609	00	01	270	76	"	"	"
Gathering Ground	July 2	405	21	601	00	01	267	70	"	"	"
18, Scott Street ....	" 9	410	21	773	00	01	275	72	"	"	"
Gathering Ground	" 16	400	21	691	00	01	275	75	"	"	"
35, Brewer Street ..	" 23	405	21	773	00	01	288	82	"	"	"
Gathering Ground	" 30	400	21	609	00	01	276	75	"	"	"
24, Perry Street ....	Aug. 7	405	21	773	00	01	285	74	"	"	"
Gathering Ground	" 13	405	20	617	00	01	286	76	"	"	"
13, Medway Street..	" 20	350	20	6	00	01	234	56	"	"	"
Gathering Ground	" 27	350	20	5	00	01	234	65	"	"	"
5, Fairmeadow ....	Sept. 3	335	22	06	00	00	224	56	"	"	"
Gathering Ground	" 10	345	22	06	00	00	225	56	"	"	"
15, Boxley Road....	" 17	350	20	613	00	01	225	53	"	"	"
Gathering Ground	" 24	350	21	613	00	01	225	54	"	"	"
23, Boxley Road....	Oct. 1	350	21	6	00	01	226	54	"	"	"
Gathering Ground	" 8	350	20	5	00	01	226	54	"	"	"
19, Medway Street	" 15	350	20	5	00	01	226	54	"	"	"
Gathering Ground	" 22	355	21	4	00	02	255	55	"	"	"
"	" 29	355	21	5	00	02	230	52	"	"	"
Gathering Ground	Nov. 5	355	20	5	00	01	230	59	"	"	"
"	" 12	355	19	4	00	02	228	55	"	"	"
Gathering Ground	" 19	350	20	5	00	01	226	55	"	"	"
4, Haycock Lane ....	" 26	350	20	5	00	01	227	55	"	"	"
Gathering Ground	Dec. 3	350	20	5	00	02	234	50	"	"	"
52, Faith Street ....	" 10	350	20	5	00	01	227	54	"	"	"
Gathering Ground	" 17	350	20	5	00	01	225	55	"	"	"
41, Faith Street ....	" 24	350	20	5	00	01	228	55	"	"	"
Gathering Ground	" 31	355	20	5	00	01	226	56	"	"	"
Mean results for 1923.	53 samples	370	20	550	00	01	249	65	clear	none	none

All results are given in parts per hundred thousand, except Free and Albuminoid Ammonia, which are in parts per million.

TABLE III.—Cossington Water Supply.

Source of Sample.	Date of Collection.	Total Solids.	Chlorine.	Nitrogen as Nitrates.	Ammonia.		Hardness.		Colour and appearance in 2-ft. tube.	Smell.	Phosphoric Acid.
					Free.	Albuminoid.	Total.	Perm.			
Gathering Grounds.	Jan. 8	360	22	492	00	01	250	7.2	clear	none	none
"	" 23	305	19	492	00	01	250	7.6	"	"	"
"	Feb. 5	400	21	592	00	01	242	7.1	"	"	"
"	" 19	460	20	625	00	01	245	7.3	"	"	"
"	Mar. 5	305	20	492	00	01	254	7.4	"	"	"
"	" 19	305	20	492	00	01	255	7.4	"	"	"
"	April 3	460	20	625	00	01	250	7.0	"	"	"
"	" 16	455	20	629	00	01	260	7.5	"	"	"
"	" 30	460	21	629	00	01	258	7.4	"	"	"
"	May 14	460	20	625	00	01	252	7.4	"	"	"
"	" 28	395	22	411	00	01	260	6.7	"	"	"
"	June 11	410	21	420	00	01	265	7.1	"	"	"
"	" 25	405	21	506	00	01	265	7.2	"	"	"
"	July 9	400	22	492	00	01	265	7.0	"	"	"
"	" 23	410	22	492	00	01	29.7	7.9	"	"	"
"	Aug. 7	400	20	492	00	01	27.5	7.6	"	"	"
"	" 20	300	19	3	00	01	22.5	5.6	"	"	"
"	Sept. 3	294	20	3	00	01	22.0	5.0	"	"	"
"	" 17	300	19	3	00	01	22.5	4.9	"	"	"
"	Oct. 1	295	20	3	00	01	22.4	4.8	"	"	"
"	" 15	295	21	3	00	01	22.3	4.9	"	"	"
"	" 29	300	20	3	00	02	24.0	4.7	"	"	"
"	Nov. 12	305	20	3	00	02	22.5	5.0	"	"	"
"	" 28	300	19	3	00	01	22.4	4.0	"	"	"
"	Dec. 10	295	19	3	00	02	22.4	5.0	"	"	"
"	" 24	29.7	21	3	00	02	22.6	5.0	"	"	"
Mean results for 1923		360	20	442	00	01	24.6	6.3	clear	none	none

All results are given in parts per hundred thousand, except Free and Albuminoid Ammonia, which are in parts per million.

TABLE IV.—Forstal Water Supply.

Source of Sample.	Date of Collection.	Total Solids.	Chlorine.	Nitrogen as Nitrates.	Ammonia.		Hardness.		Colour and appearance in 2-ft. tube.	Smell.	Phosphoric Acid.
					Free.	Albuminoid.	Total.	Perm.			
Gathering Ground	Jan. 1	460	41	164	300	301	3032	76	clear	none	none
"	" 15	446	39	127	300	301	2746	78	"	"	"
"	" 29	405	39	185	300	301	285	76	"	"	"
"	Feb. 12	460	40	164	300	301	303	78	"	"	"
"	" 26	450	34	131	300	301	2665	84	"	"	"
"	Mar. 12	460	39	164	300	301	305	79	"	"	"
"	" 26	369	40	492	300	301	270	70	"	"	"
"	" 8	405	39	185	300	301	285	76	"	"	"
"	Apr. 23	390	39	492	300	301	270	75	"	"	"
"	" 1	384	39	492	300	301	275	70	"	"	"
"	" 22	410	39	123	300	301	275	79	"	"	"
"	June 1	420	39	123	300	301	289	80	"	"	"
"	" 18	420	39	131	300	301	289	79	"	"	"
"	July 2	420	41	123	300	301	290	82	"	"	"
"	" 16	420	40	131	300	301	290	84	"	"	"
"	" 30	420	39	123	300	301	285	82	"	"	"
"	Aug. 13	420	40	411	300	301	287	75	"	"	"
"	" 27	494	39	3	300	301	350	85	"	"	"
"	Sept. 10	508	40	3	300	301	350	90	"	"	"
"	" 24	490	40	444	300	301	340	89	"	"	"
"	Oct. 8	495	40	3	300	301	345	89	"	"	"
"	" 22	495	40	3	300	301	345	82	"	"	"
"	Nov. 5	445	40	3	300	301	346	89	"	"	"
"	" 19	495	39	3	300	301	350	89	"	"	"
"	Dec. 3	495	40	3	300	301	340	79	"	"	"
"	" 17	495	40	3	300	301	346	89	"	"	"
"	" 31	490	40	3	300	301	346	82	"	"	"
Mean results for 1923	27 Samples	416	39	255	300	301	307	80	clear	none	none

All results are given in parts per hundred thousand, except Free and Albuminoid Ammonia, which are in parts per million.

TABLE V.—Cossington and Forstal (Mixed Water Supply).

Source of Sample.	Date of Collection.	Total Solids.	Chlorine	Nitrogen as Nitrates	Ammonia.		Hardness.		Colour and appearance in 2-ft. tube.	Smell.	Phosphoric Acid.
					Free.	Albuminoid.	Total.	Perm.			
1, Earl Street .....	Jan. 1	105	19	230	00	01	275	75	clear	none	none
133, Wheeler Street ..	" 8	420	35	362	00	01	280	64	"	"	"
12, Western Road ..	" 15	425	37	362	00	01	285	68	"	"	"
99, Wheeler Street ..	" 22	425	39	362	00	01	280	75	"	"	"
280, Upper Fant Rd.	" 29	405	37	411	00	01	280	74	"	"	"
17, Hardy Street ....	Feb. 5	402	38	411	00	01	280	76	"	"	"
4, Rose and Crown Yard	" 12	360	22	370	00	01	258	68	"	"	"
5, Peel Street .....	" 19	440	31	411	00	01	256	78	"	"	"
1, County Road ....	" 26	405	32	411	00	01	280	76	"	"	"
8, Peel Street .....	Mar. 5	430	32	362	00	01	280	76	"	"	"
4, Canning Street ..	" 12	365	30	378	00	01	260	69	"	"	"
2, Grecian Street ..	" 19	365	39	378	00	01	265	70	"	"	"
163, Boxley Road ....	" 26	367	32	378	00	01	250	70	"	"	"
7, Chillington Street	April 3	440	32	441	00	01	240	79	"	"	"
99, Wheeler Street ..	" 10	430	30	411	00	01	280	76	"	"	"
201, Wheeler Street ..	" 16	410	31	411	00	01	265	79	"	"	"
161, Wheeler Street ..	" 23	410	32	411	00	01	265	79	"	"	"
76, Boxley Road ....	" 30	430	32	378	00	01	268	78	"	"	"
3, Warwick Place ....	May 7	435	32	414	00	01	278	78	"	"	"
Boxley Rd., "Firs"	" 14	435	39	411	00	01	287	77	"	"	"
198, Wheeler Street ..	" 22	400	32	247	00	01	280	72	"	"	"
135, Wheeler Street ..	" 28	400	33	370	00	01	275	72	"	"	"
Sanatorium .....	June 4	415	34	247	00	01	270	79	"	"	"
2, Smith's Yard, St. St. Peter Street	" 11	405	36	411	00	01	275	75	"	"	"
11, Hardy Street ..	" 19	495	37	378	01	01	245	69	"	"	"
33, Gladstone Road ..	" 26	405	39	427	00	01	250	69	"	"	"
1, Peel Street .....	July 2	415	35	247	00	01	270	79	"	"	"
20, Carey Street ....	" 9	405	32	411	00	01	240	80	"	"	"
141, Wheeler Street ..	" 16	410	37	370	00	01	278	76	"	"	"
7, Camden Street ..	" 23	400	39	247	00	01	290	75	"	"	"
London Road, 7, Tassel's Row	" 30	405	37	328	00	01	280	80	"	"	"
164, Wheeler Street ..	Aug. 7	410	38	411	00	01	280	79	"	"	"
76, Boxley Road ....	" 13	410	38	247	00	01	289	75	"	"	"
60, Milton Street ..	" 20	480	34	2	00	01	345	70	"	"	"
13, Well Road .....	" 27	480	35	2	00	01	343	75	"	"	"
2, Queen's Road ....	Sept. 3	475	34	2	00	00	332	70	"	"	"
3, Wheeler Street ..	" 10	470	33	3	00	00	292	80	"	"	"
22, James Street ....	" 17	475	35	3	00	01	300	75	"	"	"
16, St. Peter Street ..	" 24	470	39	382	00	01	290	79	"	"	"
303, Tonbridge Road ..	Oct. 1	475	39	2	00	01	333	70	"	"	"
9, Slingswood .....	" 9	470	35	2	00	01	332	70	"	"	"
6, County Road ....	" 16	495	31	2	00	01	347	89	"	"	"
218, Upper Fant Rd.	" 22	490	33	3	00	02	348	89	"	"	"
60, Milton Street ....	" 29	490	37	5	00	01	350	84	"	"	"
39, Whitmore Street ..	Nov. 5	470	35	2	00	01	335	70	"	"	"
247, Queen's Road ....	" 12	495	35	3	00	04	350	87	"	"	"
7, Hart Street .....	" 19	470	34	2	00	01	330	70	"	"	"
20, Milton Street ....	" 26	475	37	2	00	04	336	70	"	"	"
59, Whitmore Street ..	Dec. 3	490	32	3	00	01	349	80	"	"	"
109, Upper Fant Rd.	" 10	495	35	3	00	01	348	89	"	"	"
39, Whitmore Street ..	" 17	495	34	3	00	01	347	89	"	"	"
6, County Road ....	" 24	495	38	3	00	01	348	89	"	"	"
Smith's Yard, St. Peter Street	" 31	495	35	3	00	02	348	89	"	"	"
Mean results for 1923 samples	53	437	35	330	00	01	295	76	clear	none	none

All results are given in parts per hundred thousand except Free and Albuminoid Ammonia, which are in parts per million.

TABLE VI.—Record of Meteorology, 1923.

(Taken Daily at 9 a.m.)

MONTH.	RELATIVE PROPORTION OF WIND.							
	N.	N.E.	N.W.	S.	S.E.	S.W.	E.	W.
January ...	1	...	5	4	2	13	...	6
February ...	1	...	1	2	10	3	2	9
March ...	5	7	1	4	5	6	2	1
April ...	2	6	1	2	7	8	3	1
May ...	2	4	3	4	1	10	1	6
June ...	6	..	13	...	...	5	..	6
July ...	2	...	4	..	7	13	2	3
August ...	1	...	4	5	3	12	...	6
September ...	...	...	...	...	2	20	...	8
October ...	...	...	1	2	3	22	...	3
November ...	2	3	8	...	2	7	1	7
December ...	...	...	9	1	9	6	1	5
Total ...	22	20	50	24	51	125	12	61

  

MONTH.	Average Barometer.	Average Max. Thermometer.	Average Min. Thermometer.	RAINFALL.	No. of DAYS ON WHICH .01 OR MORE RAIN FELL.
January ...	31.10	45	32	1.33	17
February ...	29.51	48	36	3.85	21
March ...	29.92	51	38	2.02	17
April ...	29.68	55	40	1.95	16
May ...	29.78	61	43	3.17	15
June ...	29.94	64	48	.70	11
July ...	29.66	78	57	.89	9
August ...	29.66	72	51	1.32	8
September ...	29.81	65	45	1.85	10
October ...	29.56	57	44	6.45	23
November ...	29.70	44	31	2.34	15
December ...	29.92	42	33	2.34	22
Averages and Totals for Year	29.85	57	41.5	28.21	184





